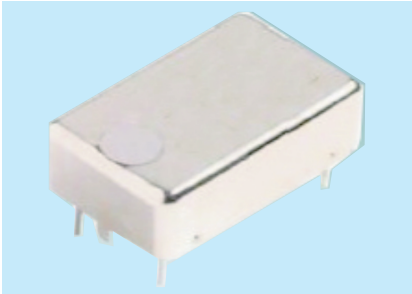


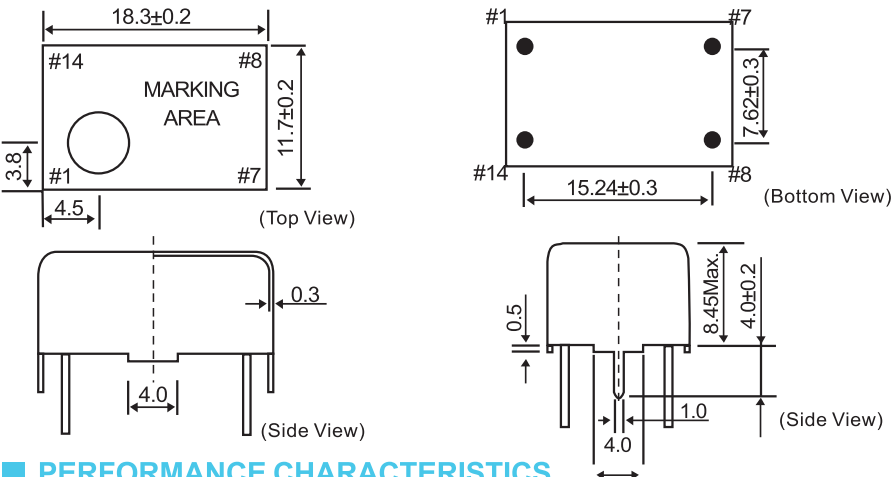


Products Information

TC18



- DESCRIPTION:
- Stability up to $\pm 0.5 \times 10^{-6}$
 - Control Voltage Range $\pm 10 \times 10^{-6}$ Max.
 - TTL/HCMOS Output
 - Good Phase Noise
 - 14PIN Package
 - SDH/SONET
 - ATM
 - WLL
 - Measurement Equipment



PIN	FUNCTION
#1	VC/NC
#7	GND
#8	OUTPUT
#14	+DC

PERFORMANCE CHARACTERISTICS

Parameter		Condition	TC18B	
Frequency Range		F ₀	1.200MHz~50.000MHz	
Frequency Stability		All Condition	See Next Table	
Operating Temperature Range		T _{OPR}	See Next Table	
Supply Voltage		V _{DD}	B: +5.0VDC±10%	A: +3.3VDC±10%
Supply Current		1.25M≤F ₀ <15M	20mA Max.	15mA Max.
		15M≤F ₀ <36M	30mA Max.	25mA Max.
		36M≤F ₀ <50M	40mA Max.	32mA Max.
Output Load			A: TTL 15pF C: CMOS 15pF D: CMOS 50pF	
Output Duty		1.4V or 1/2V _{DD}	45%~55%	
Control Voltage Range			See Ordering Information	
Frequency Stability Vs	Supply Voltage change	±5%	±0.2×10 ⁻⁶	
	Load change	±10%	±0.2×10 ⁻⁶	
	Aging		±1×10 ⁻⁶ /year	
Rise Time	Tr	0.4V~2.4V	10nS Max.	
		10%V _{DD} ~90%V _{DD}		
Fall Time	Tf	2.4V~0.4V	10nS Max.	
		90%V _{DD} ~10%V _{DD}		
Output Level	“0”Level	V _{OL}	0.4V Max. or 10%V _{DD}	
	“1”Level	V _{OH}	2.4V Min. or 90%V _{DD}	
Vc Input Impedance			100KΩ	
Start-Up Time		Ts	2mS Max.	
Storage Temperature Range		T _{STG}	-55°C~+125°C	



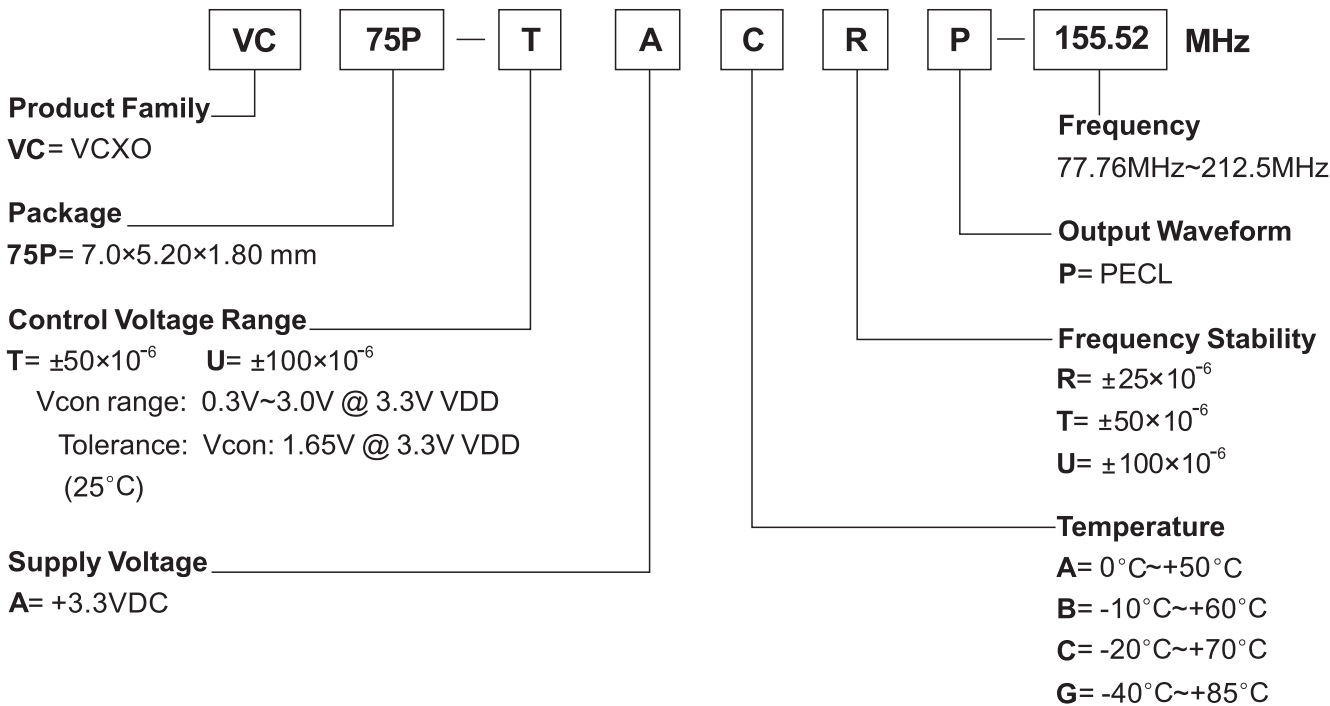
Products Information

TC18

FREQUENCY STABILITY OVER TEMPERATURE RANGE

Temperature Range	Frequency Stability					
	H: ±0.5×10 ⁻⁶	I: ±1.0×10 ⁻⁶	J: ±1.5×10 ⁻⁶	K: ±2.0×10 ⁻⁶	L: ±2.5×10 ⁻⁶	N: ±5.0×10 ⁻⁶
A: 0°C~+50°C	●	●	●	●	●	●
B: -10°C~+60°C	●	●	●	●	●	●
C: -20°C~+70°C		●	●	●	●	●
D: -30°C~+75°C		●	●	●	●	●
G: -40°C~+85°C		●	●	●	●	●

ORDERING INFORMATION



ORDERING EXAMPLE

VC75P-TACRP-155.52MHz
VCXO / Pulling Range: ±50×10⁻⁶ / +3.3VDC / -20°C~+70°C / Frequency Stability: ±25×10⁻⁶ / PECL / 155.52MHz